

WHAT IS CLAIMED IS:

1. A method of authenticating disk management information of a disk to certify validity of management information recorded on the disk, comprising the step of:

recording authentication information on the disk on which the management information is recorded, the authentication information confirming validity of the management information.

2. A method of authenticating disk management information of a disk to certify validity of management information recorded on the disk, comprising the steps of:

recording authentication information on the disk on which the management information is recorded, thereby certifying that the management information is valid; and

recording invalidating information on the disk on which the management information and the authentication information are recorded, thereby invalidating certifying effect of the authentication information.

3. A method of authenticating disk management information according to claim 2, comprising the steps of:

recording, during stopping processing of a disk device in which the disk is loaded, authentication information on the disk if validity of the management

information is confirmed; and
recording invalidating information, before
data recording processing, in response to a data
recording request first received after the disk device
is started.

4. A method of authenticating disk management
information according to claim 2, comprising the steps
of:

sequentially and additionally recording
authentication information and invalidating information
in one area on the disk;

regarding the management information on the
disk as valid if invalidating information is absent
after authentication information last recorded on the
disk; and

regarding the management information on the
disk as invalid if invalidating information is present
after authentication information last recorded on the
disk.

5. A method of authenticating disk management
information according to claim 2, comprising the steps
of:

recording authentication information and
invalidating information in a power calibration area on
the disk; and

using, as invalidating information, a power
calibration pattern recorded in the power calibration
area.

6. A disk device, comprising:
 - means for recording authentication information to certify validity of management information on a disk and invalidating information to invalidate certifying effect of the authentication information, on the disk on which the management information is recorded; and
 - means for determining whether or not the management information on the disk is valid by confirming the authentication information and the invalidating information on the disk.
7. A disk device according to claim 6, wherein:
 - the authentication information is recorded, in stopping processing of the disk device, if validity of the management information is confirmed; and
 - the invalidating information is recorded, before data recording processing, in response to a data recording request first received after the disk device is started.